

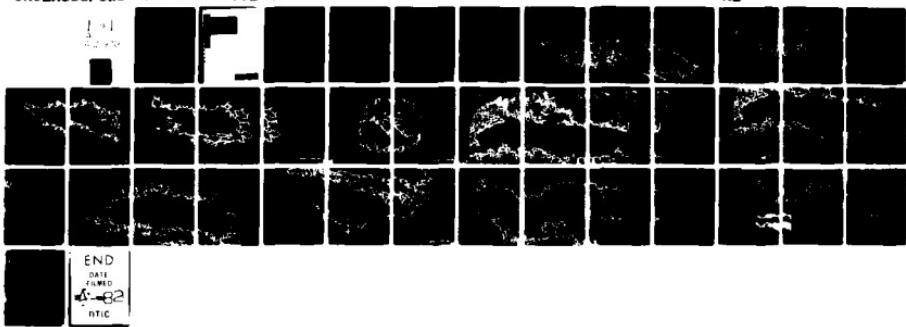
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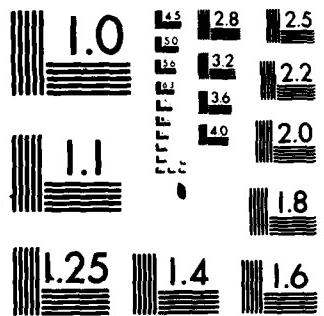
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MX SITING INVESTIGATION. SUMMARY OF SUITABLE AREA, NEVADA-UTAH.—ETC(U)

F04704-80-Q-0006

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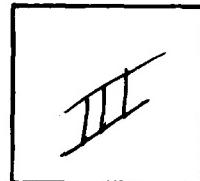


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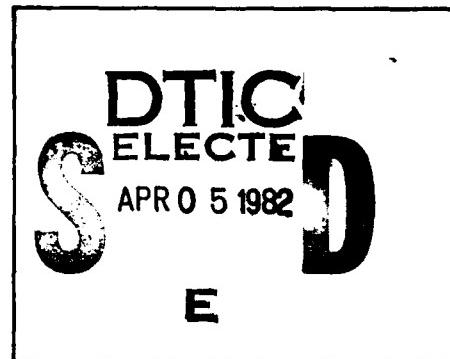
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**MX SITING INVESTIGATION
SUMMARY OF SUITABLE AREA
NEVADA-UTAH
VERIFICATION STUDIES, FY 79 AND FY 80
VOLUME II**

Prepared for:

**U.S. Department of the Air Force
Ballistic Missile Office (BMO)
Norton Air Force Base, California 92409**

Prepared by:

**Fugro National, Inc.
3777 Long Beach Boulevard
Long Beach, California 90807**

14 July 1980

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Suitable areas: Cave Valley, Antelope, Delamar, Pahoe, Dry Lake, Gardent Coal, White River, Bedrock, ground water, water level, terrain, geology, mining		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The valleys covered in this report constitute the area of verification studies during FY 79 & 1/2 of FY80. They verified suitability of area for my system. Included are composite suitable area maps for cave, Antelope, Delamar, Pahoe, Dry Lake, Garden, Coal, and White River valleys in Nevada and Utah.		

FOREWORD

This report was prepared for the Department of the Air Force, Ballistic Missile Organization (BMO), in compliance with Contract No. F04704-80-C-0006, CDRL Item 004A2. It summarizes the results of an evaluation of the suitability of portions of Nevada and Utah for siting the MX Land Mobile Advanced ICBM system.

The valleys covered in this report constitute the area of Verification studies during fourth quarter FY 79 and first half FY 80. The objective of the Verification studies is to verify the suitability of sufficient area for deployment of the MX system. The Verification studies are the final phase of a site-selection process which was begun in 1977. Previous phases have been termed Screening, Characterization, and Ranking. In preparing this report, it has been assumed that the reader is familiar with these previous studies.

An important result of the Verification studies is the delineation of suitable area in the subject valleys. It is the purpose of this report to present the derivative maps of suitable area. The basic data, and intermediate-step interpretive maps on which the suitable area maps are based, will be the subjects of subsequent reports, along with preliminary assessments of physical and engineering characteristics of the valley soils.

This report consists of two volumes:

Volume I - Contains sections 1.0, 2.0, and 3.0; Introduction, Methodology, and Results. Volume I also contains composite suitable area maps for all or portions of six valleys: Dugway, Whirlwind, Tule, Snake, Hamlin, and Spring valleys. This volume was issued on 2 July 1980.

Volume II - Contains composite suitable area maps for all or portions of eight valleys: Cave, Muleshoe, Delamar, Pahroc, Dry Lake, Garden, Coal, and White River valleys. This volume is presented herein.

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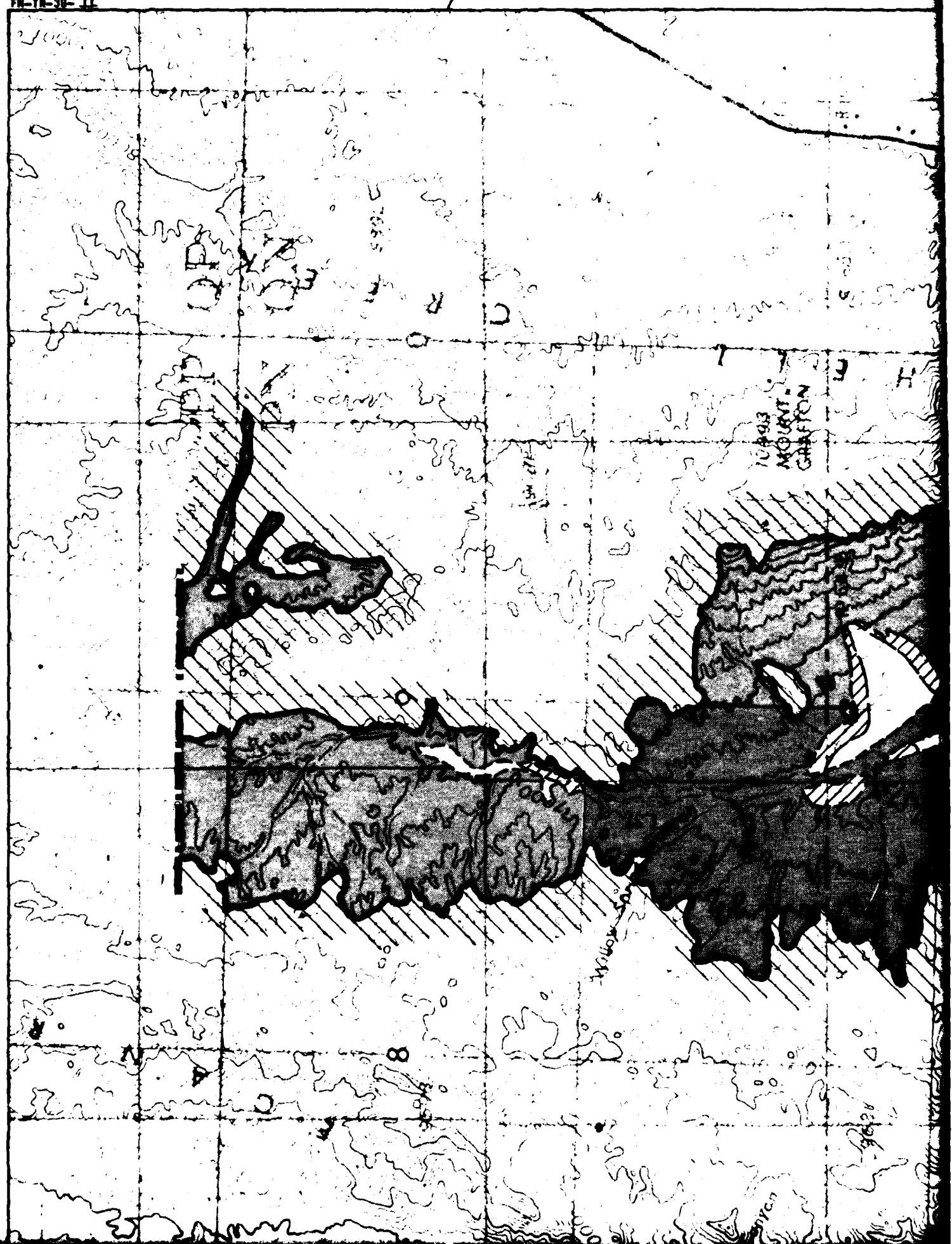
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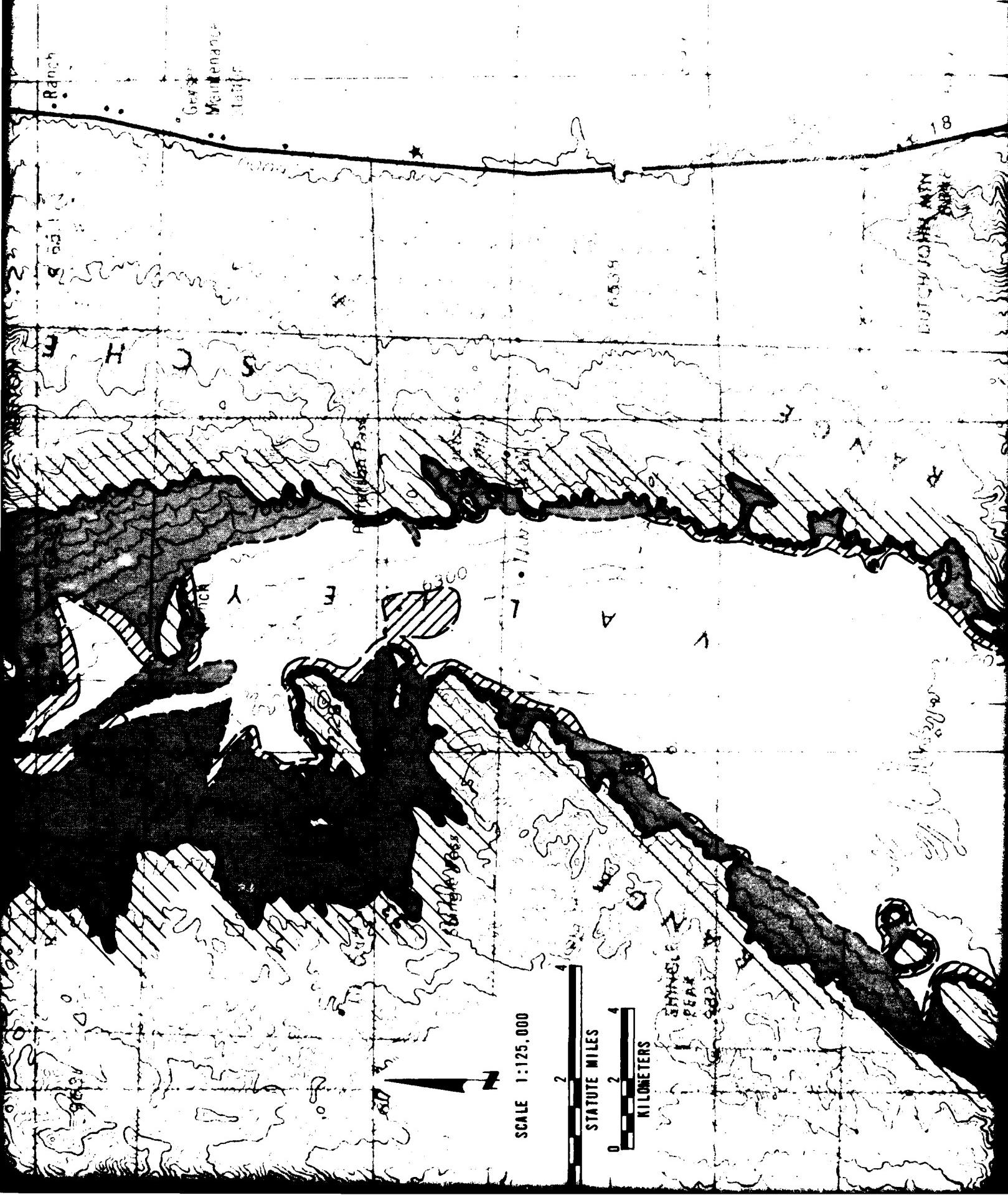
Drawing
Number

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| 3-7 | Suitable Area, Cave Valley, Nevada |
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| 3-9 | Suitable Area, Delamar Valley, Nevada |
| 3-10 | Suitable Area, Pahroc Valley, Nevada |
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| 3-12 | Suitable Area, Garden and Coal Valleys, Nevada |
| 3-13 | Suitable Area, White River Valley, Nevada |

FM-TR-38-II



2



EXPLANATION

Area suitable for horizontal and vertical shelter basing modes. Depth to rock and or water greater than 150 feet (46m).



Area suitable for horizontal shelter but not suitable for vertical shelter. Depth to rock and or water greater than 50 feet (15m) and less than 150 feet (46m).



Area unsuitable for both horizontal and vertical shelter basing modes as determined from application of depth to rock and/or water, topographic terrain, and cultural exclusions



Areas of exposed rock.



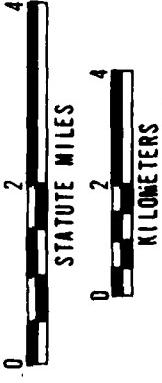
Contact between rock and basin fill.

Geographic limits of verification valley.

SILVER SPRING Mtn. 5,400 ft.
FAIRVIEW PEAK 5,229.3



SCALE 1:125,000



5

EXPLANATION

Area suitable for horizontal and vertical shelter basing modes. Depth to rock and or water greater than 150 feet (46m).



Area suitable for horizontal shelter but not suitable for vertical shelter. Depth to rock and or water greater than 50 feet (15m) and less than 150 feet



Area unsuitable for both horizontal and vertical shelter basing modes as determined from application of depth to rock and or water, topographic terrain, and cultural exclusions.



Areas of exposed rock.

Contact between rock and basin fill.

Geographic limit of verification valley.

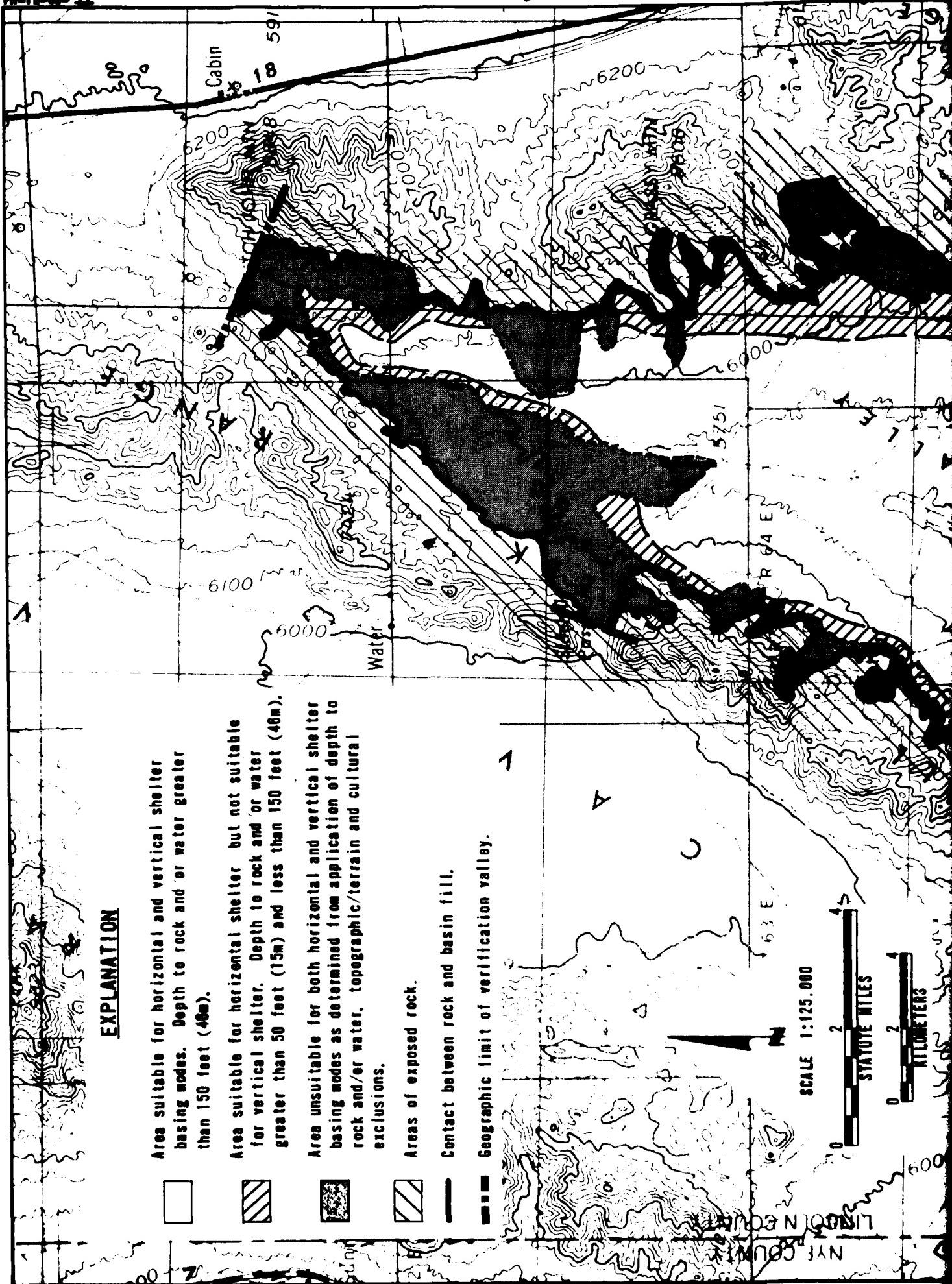
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CAVE VALLEY, NEVADA

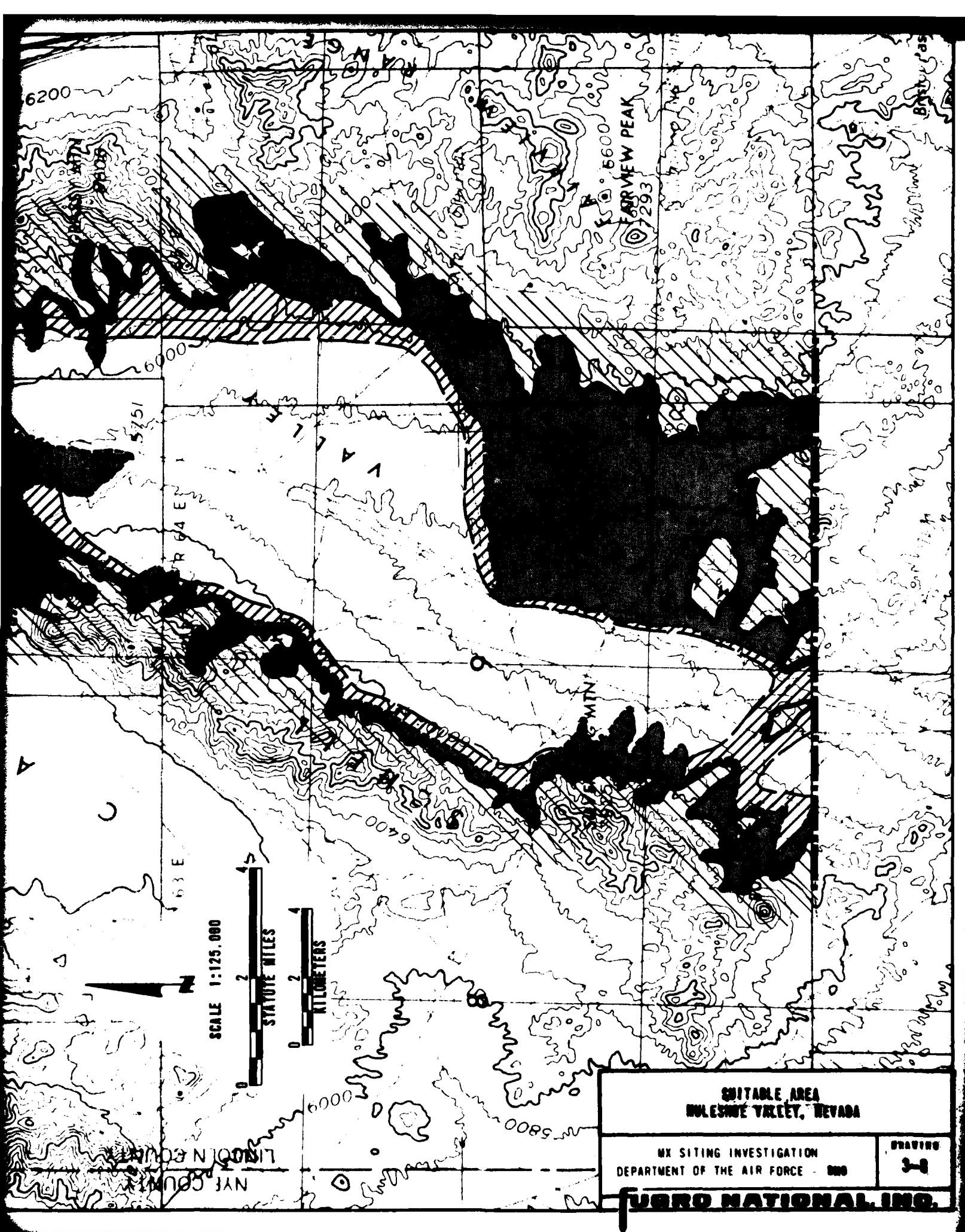
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DEPARTMENT OF THE AIR FORCE BMO

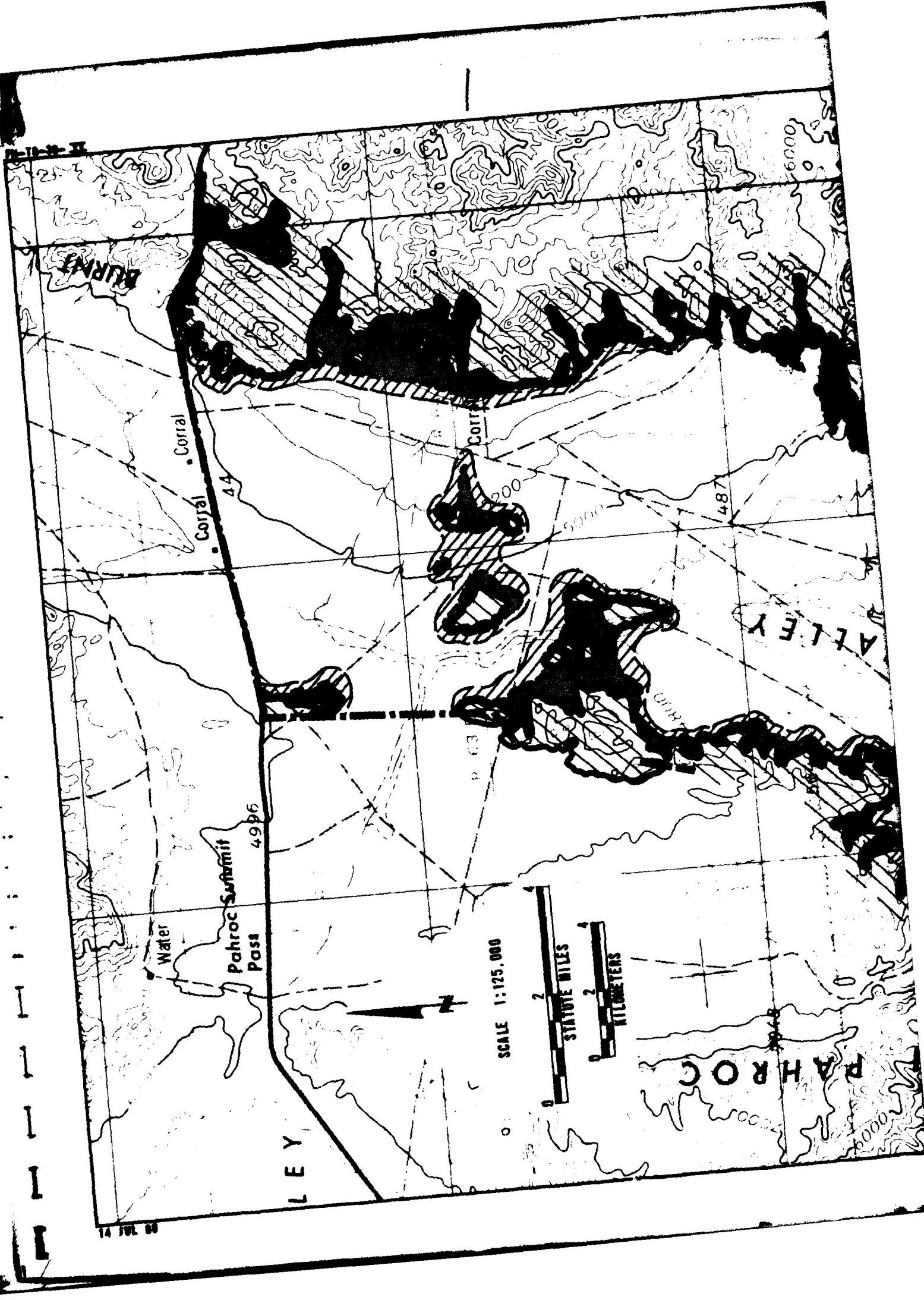
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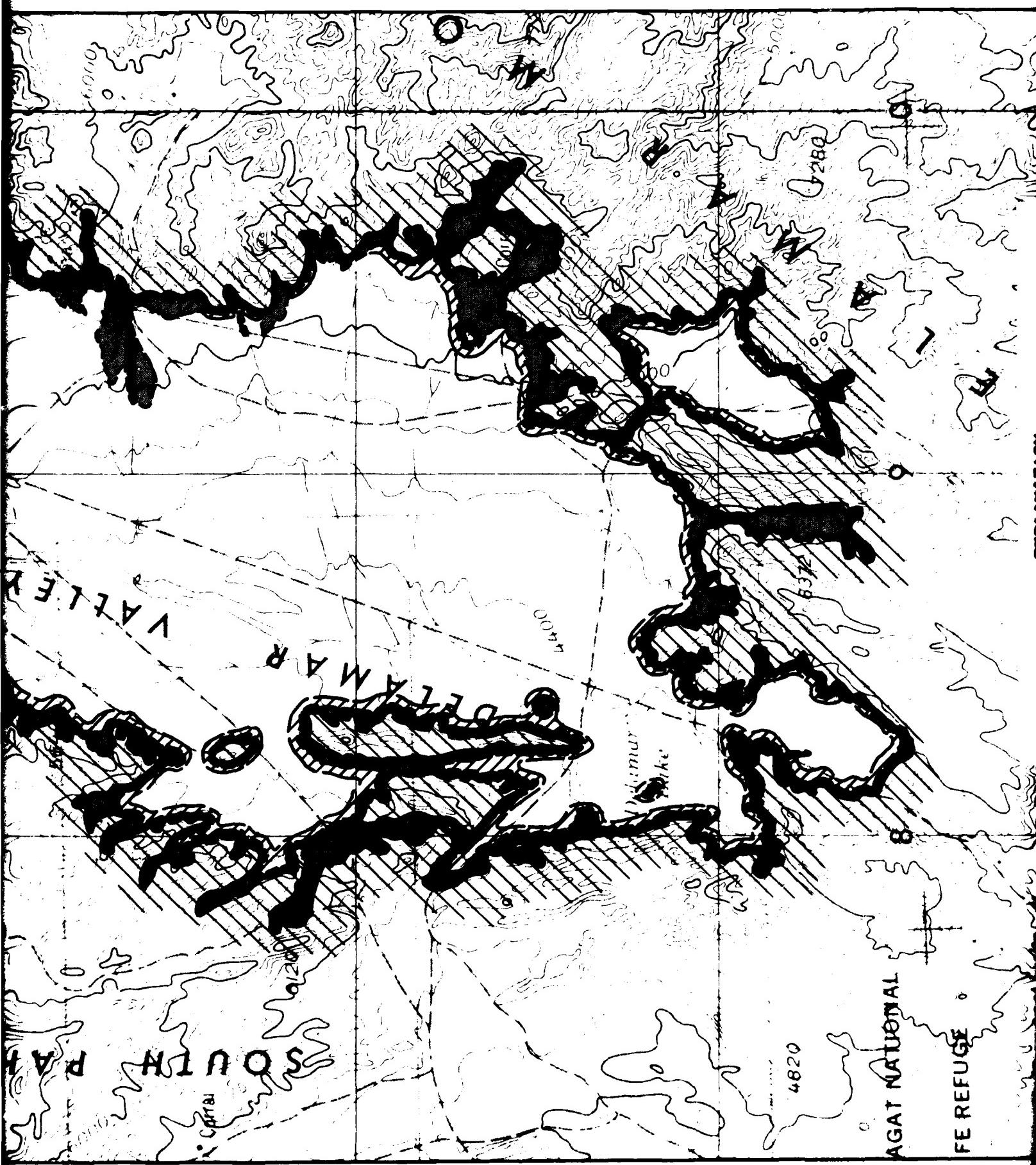
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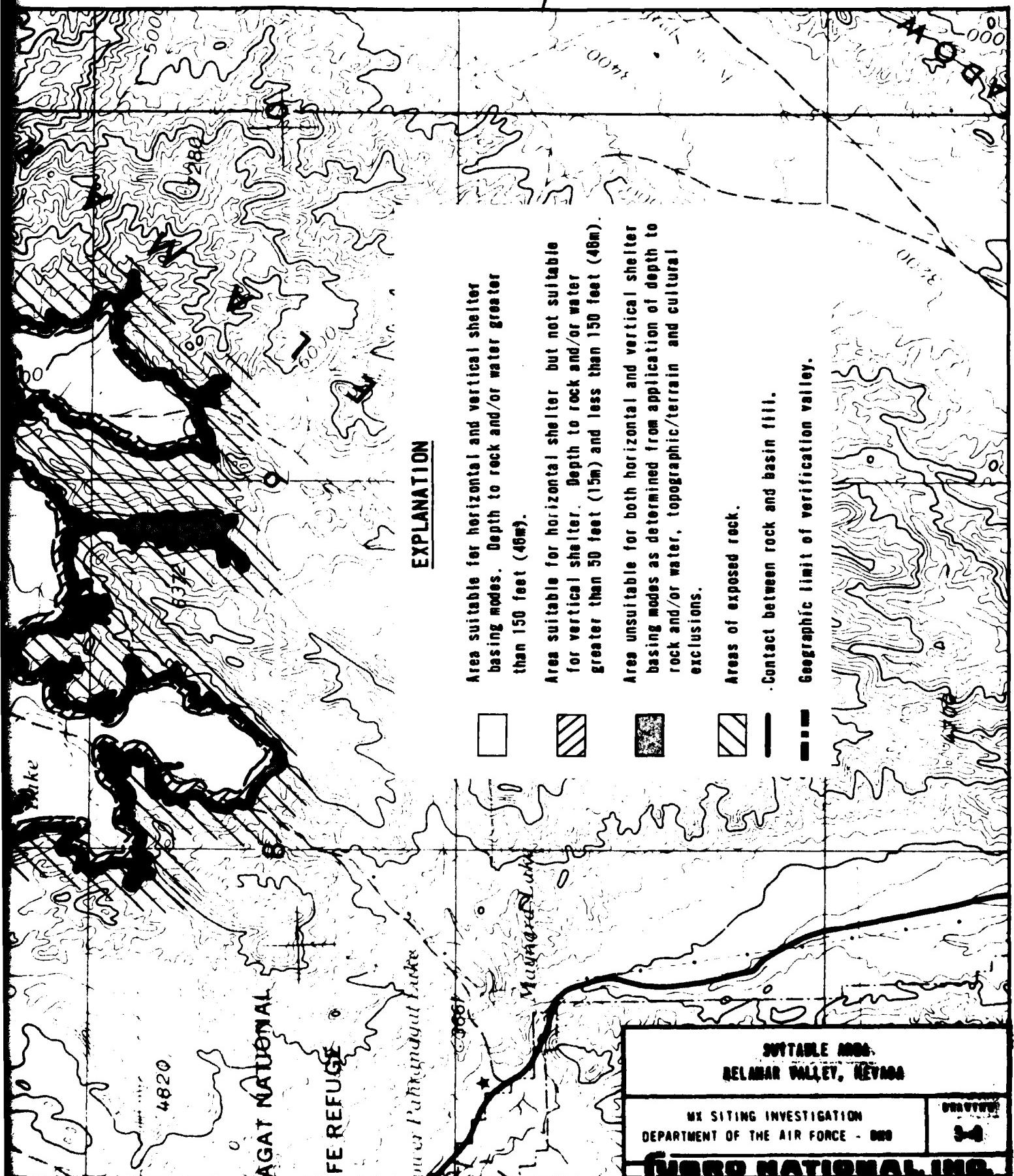
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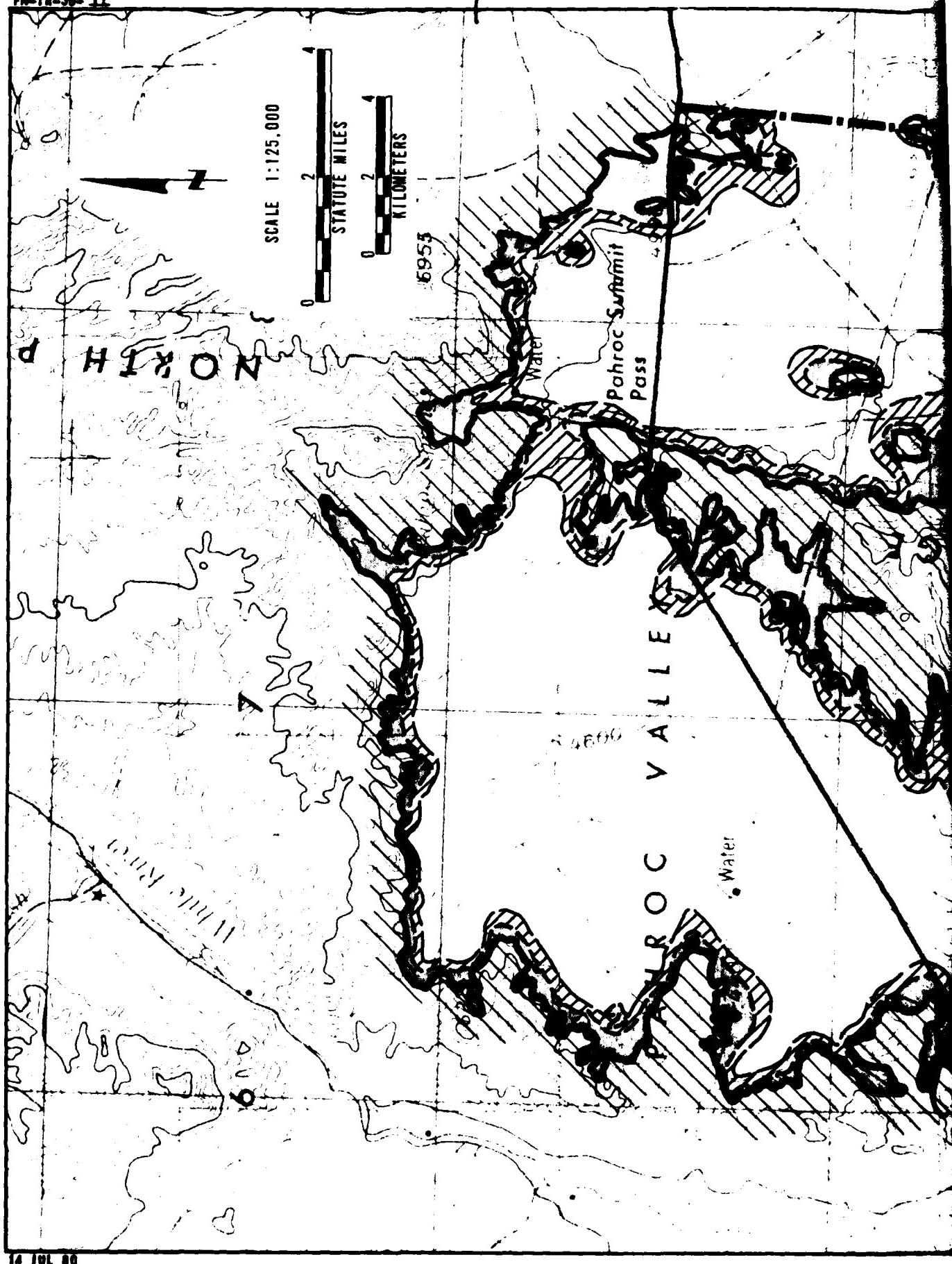


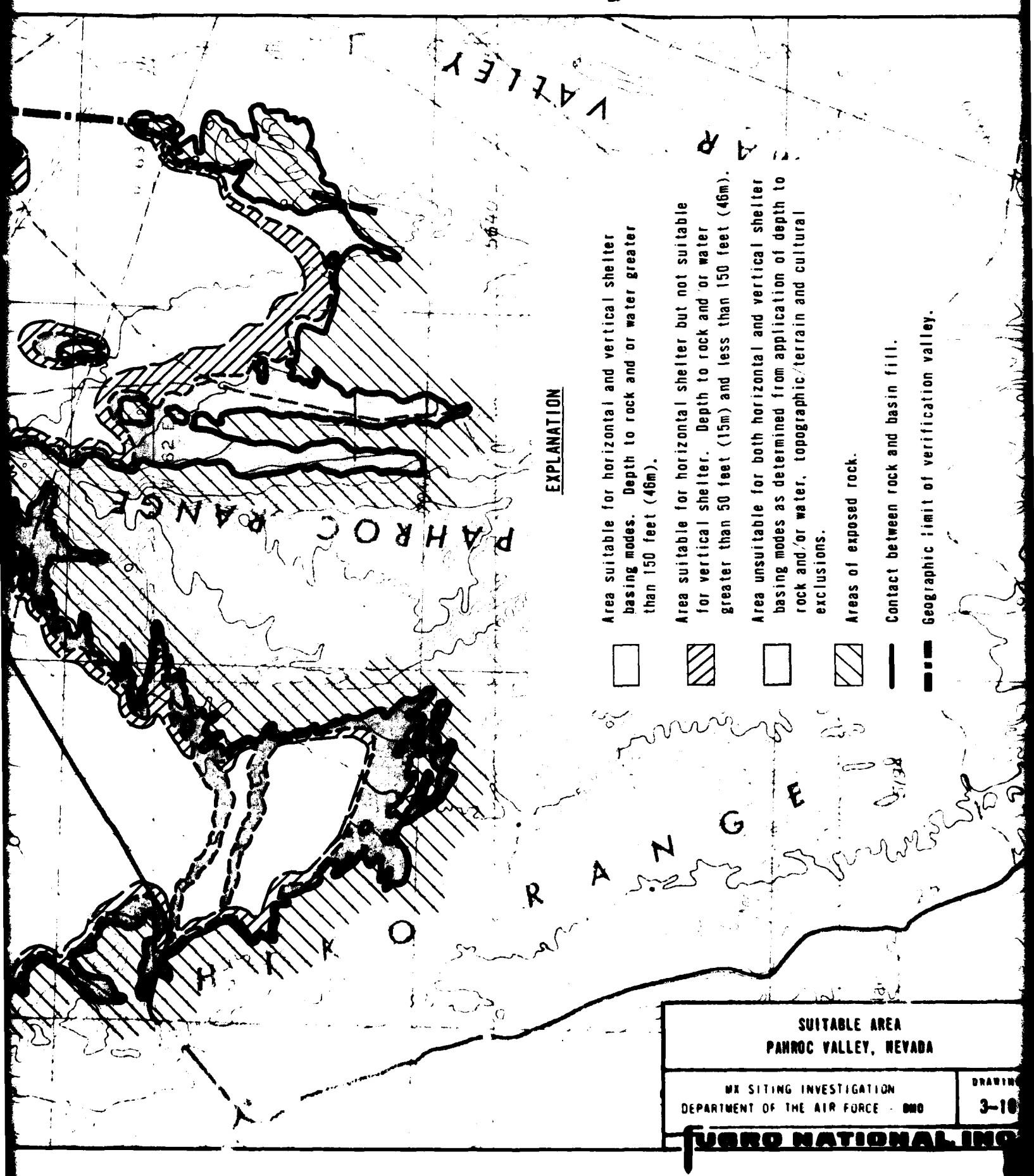


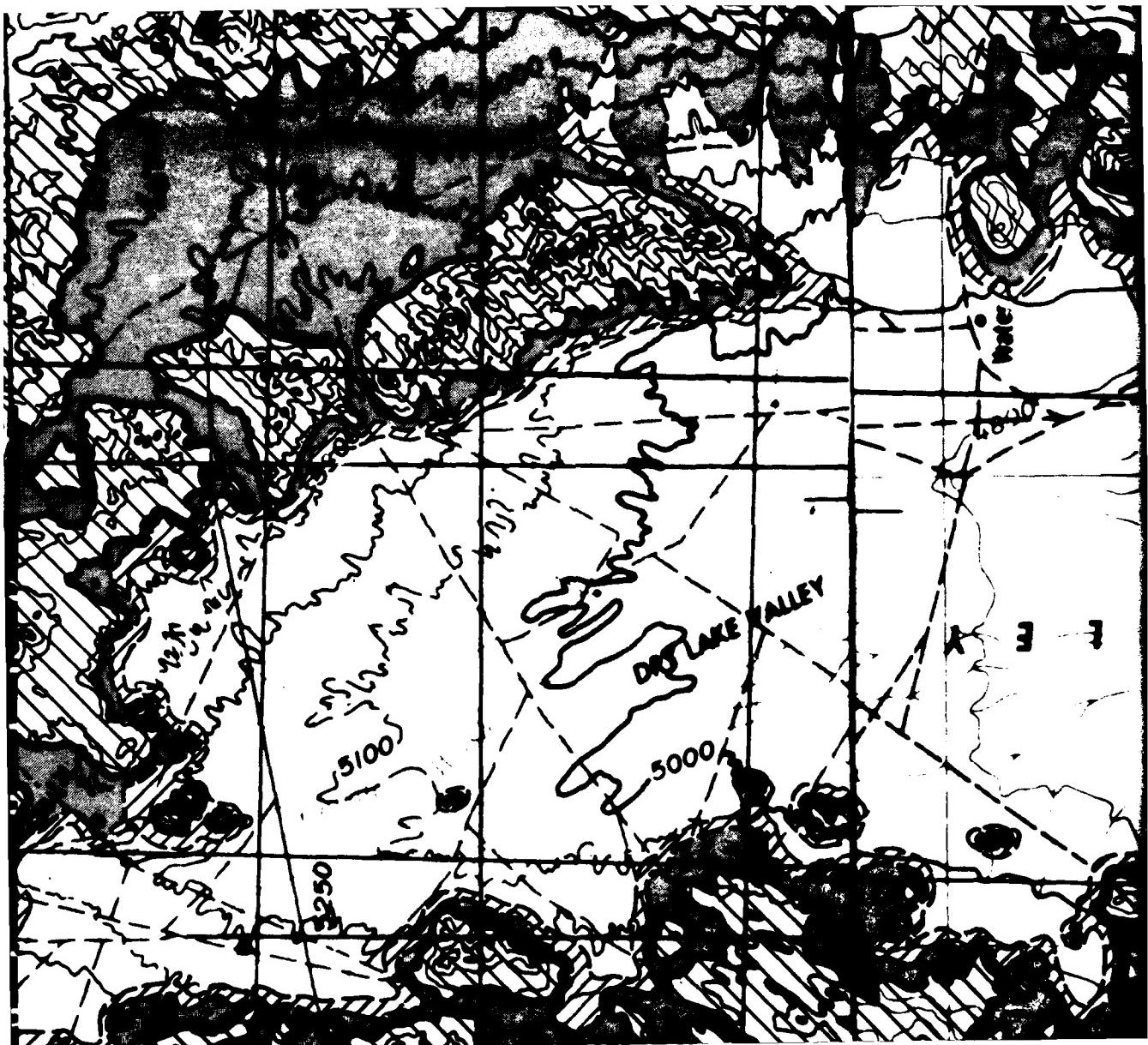


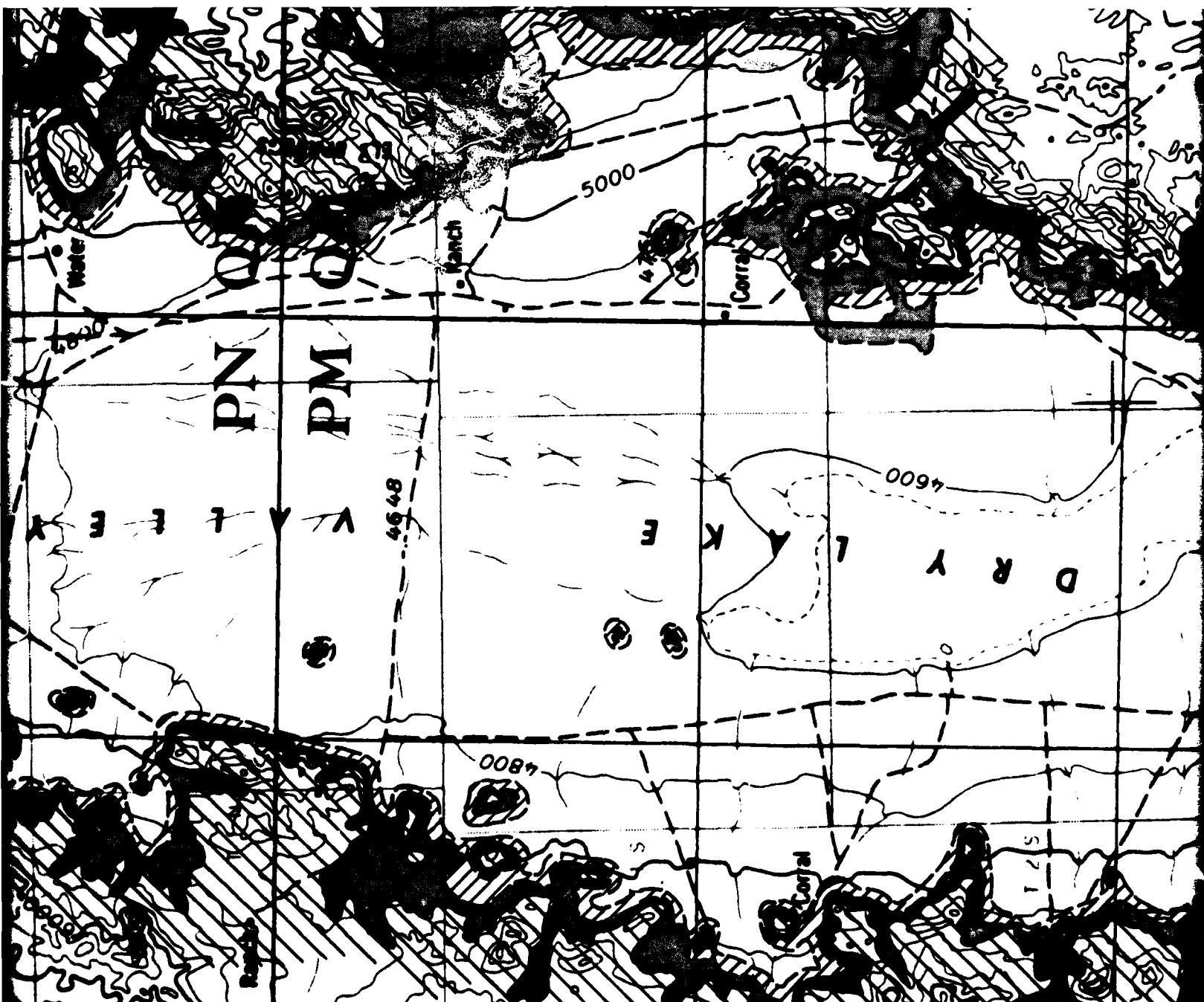


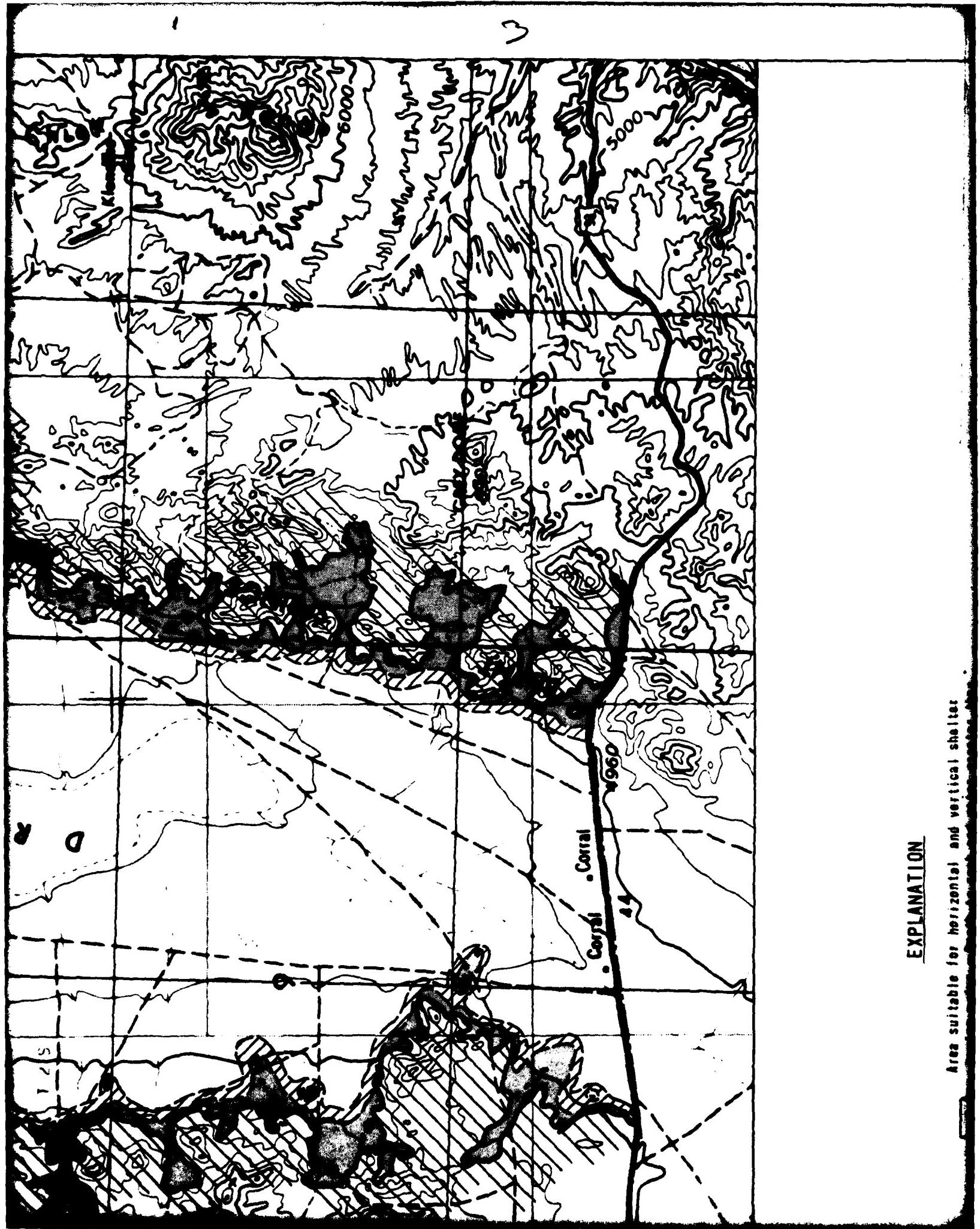
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EXPLANATION

Area suitable for horizontal and vertical shelter



EXPLANATION

[] Area suitable for horizontal and vertical shelter basing modes. Depth to rock and water greater than 150 feet (46m).

[] Area suitable for horizontal shelter but not suitable for vertical shelter. Depth to rock and/or water greater than 50 feet (15m) and less than 150 feet (46m).

[] Area unsuitable for both horizontal and vertical shelter basing modes as determined from application of depth to rock and/or water, topographic/terrain and cultural exclusions.

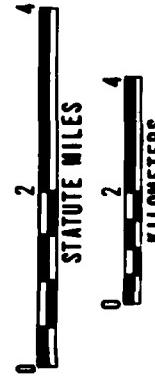


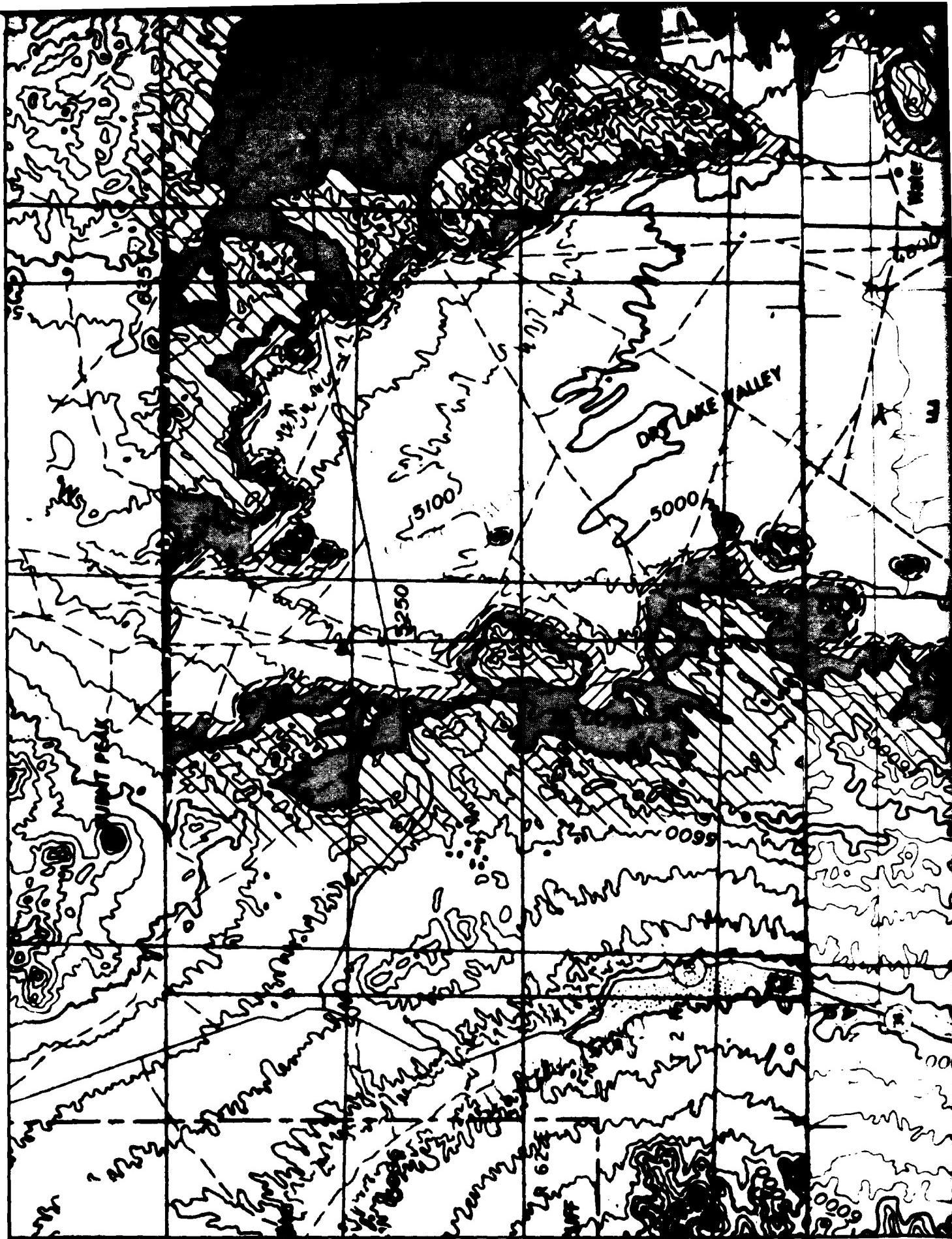
Areas of exposed rock.

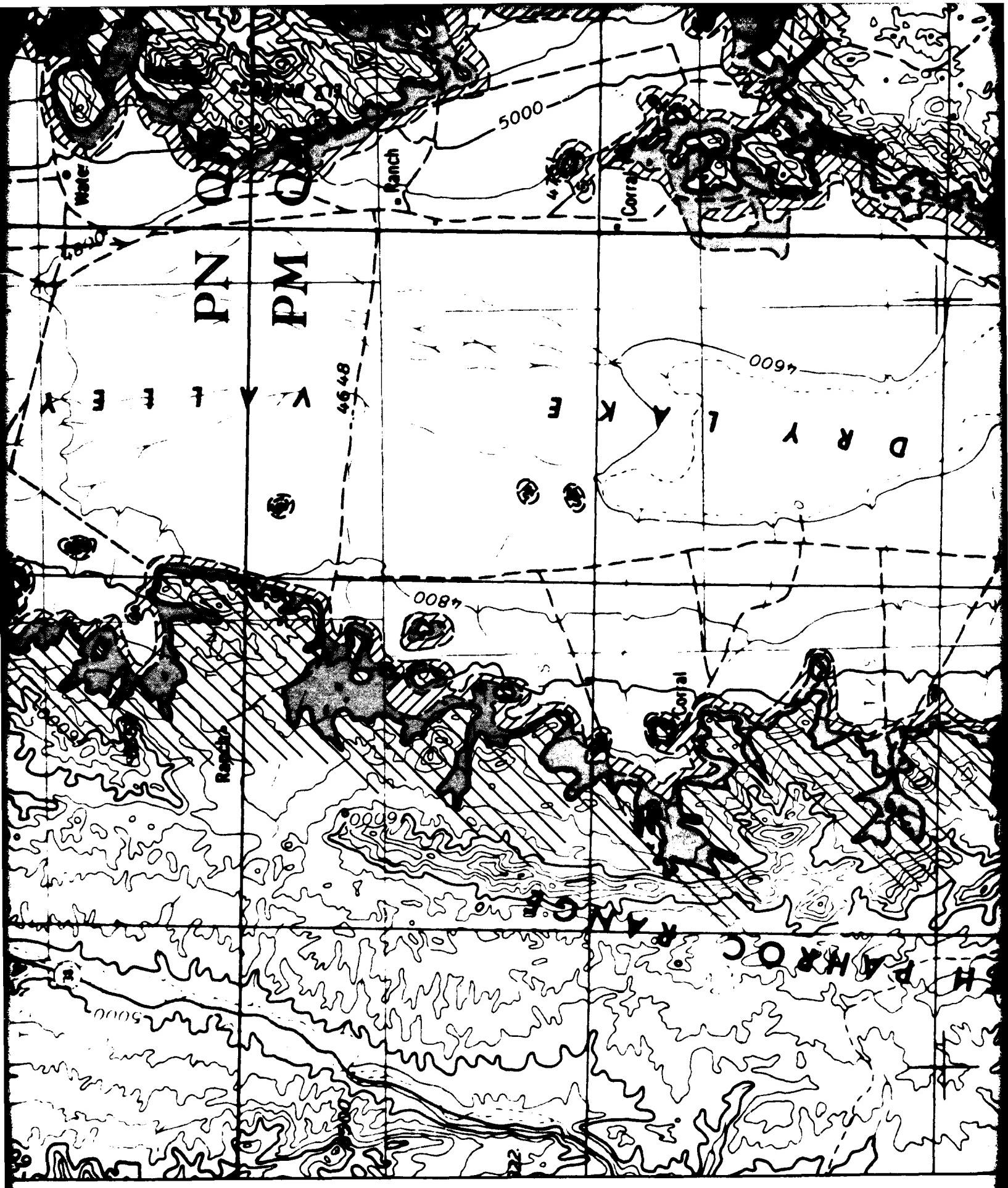
Contact between rock and basin fill.

Geographic limit of verification valley.

SCALE 1:125,000







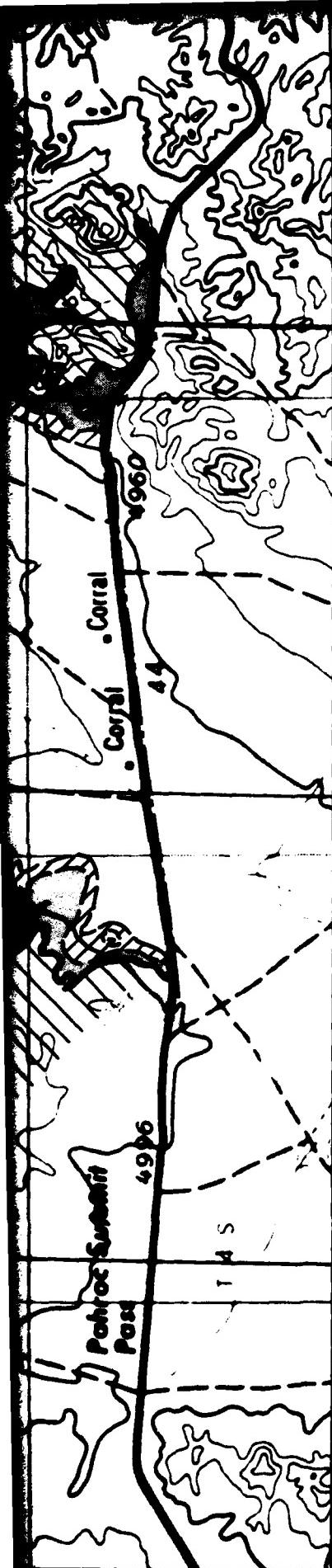
b

EXPLANATION

 Area suitable for horizontal and vertical shelter basing modes. Depth to rock and water greater than 150 feet (46m).

 Area suitable for horizontal shelter but not suitable for vertical shelter. Reach to rock and/or water.





EXPLANATION

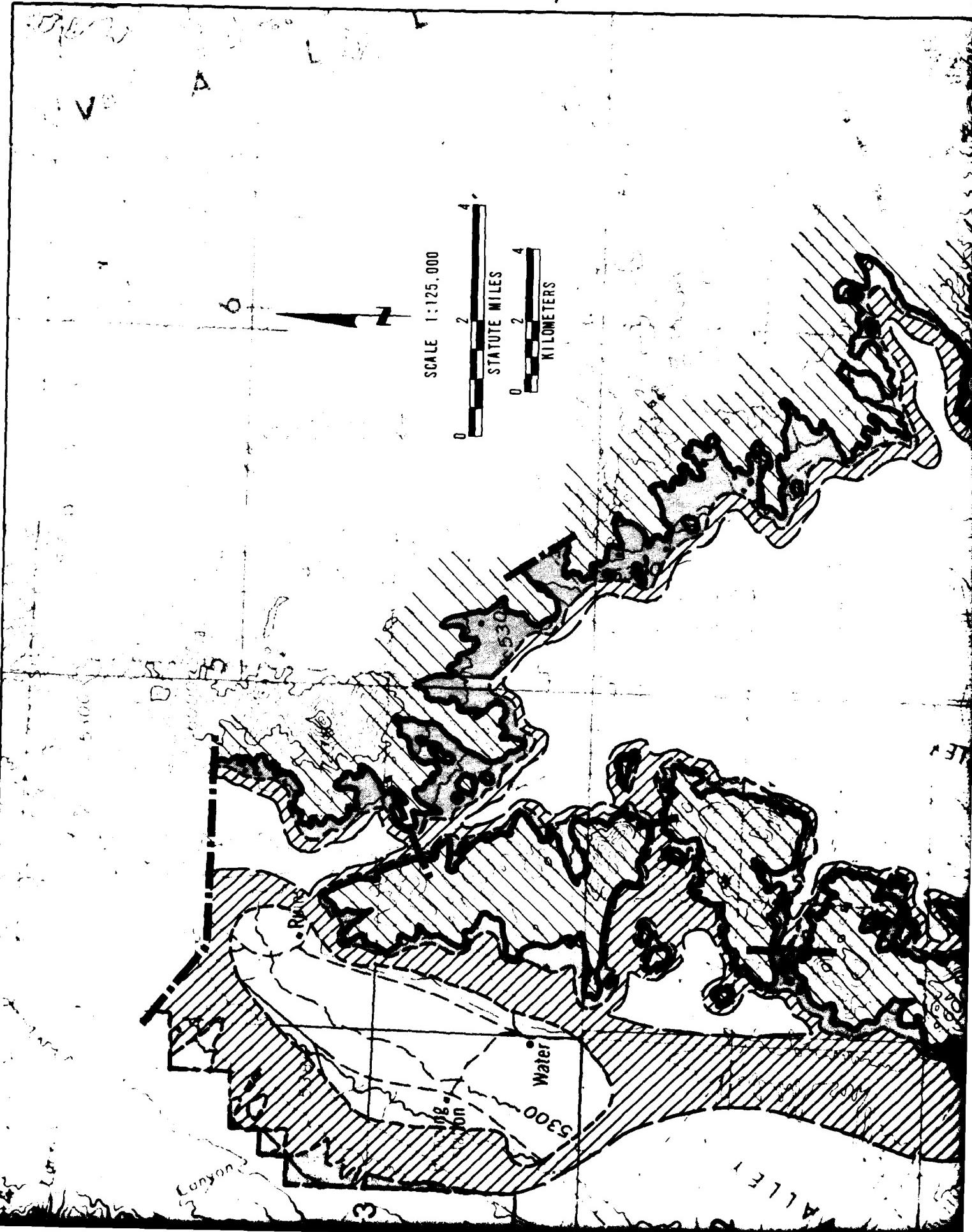
- Area suitable for horizontal and vertical shelter basing modes. Depth to rock and water greater than 150 feet (46m).
- ▨ Area suitable for horizontal shelter but not suitable for vertical shelter. Depth to rock and/or water greater than 50 feet (15m) and less than 150 feet (46m).
- ▨ Area unsuitable for both horizontal and vertical shelter basing modes as determined from application of depth to rock and/or water, topographic/terrain and cultural exclusions.

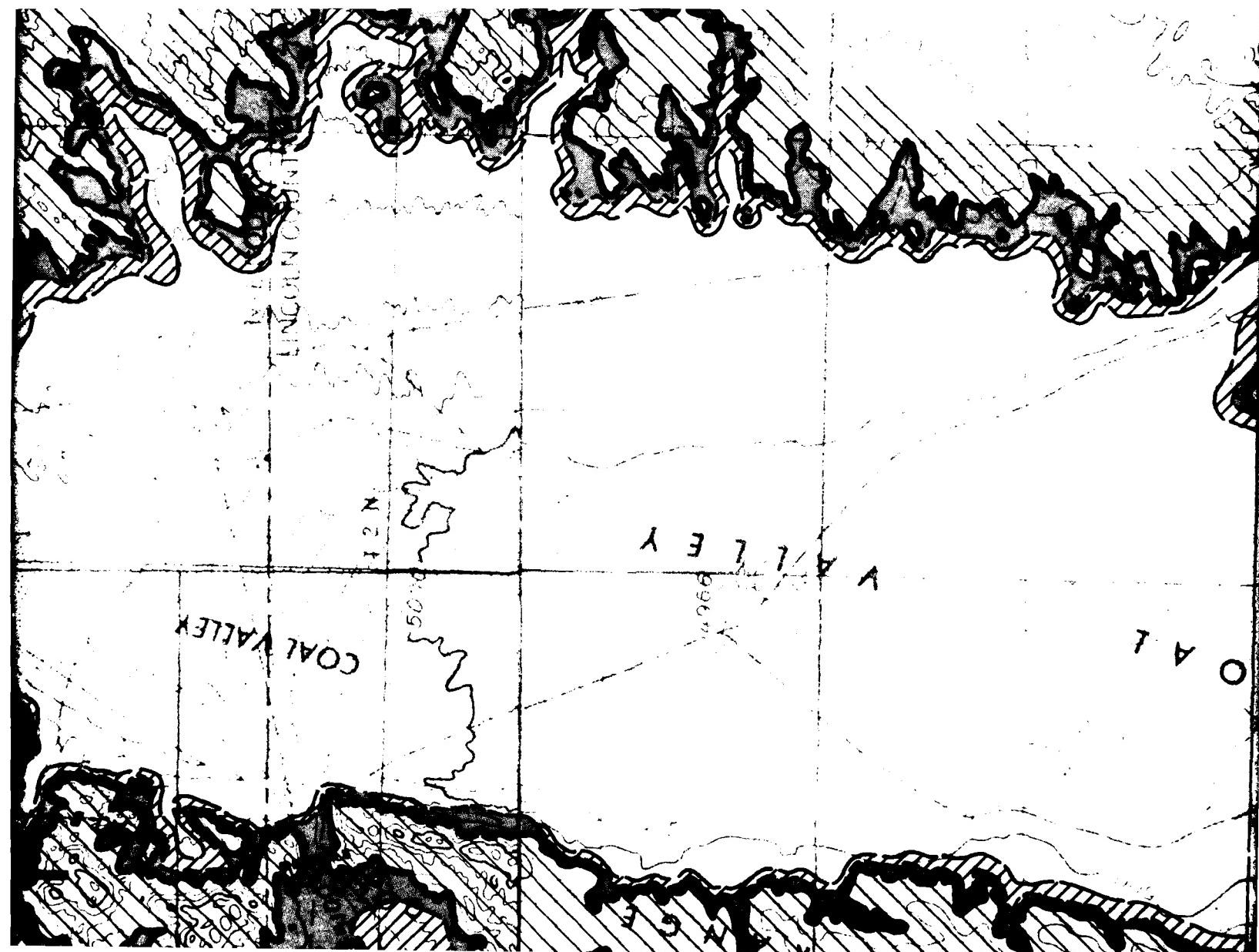
■ Areas of exposed rock.

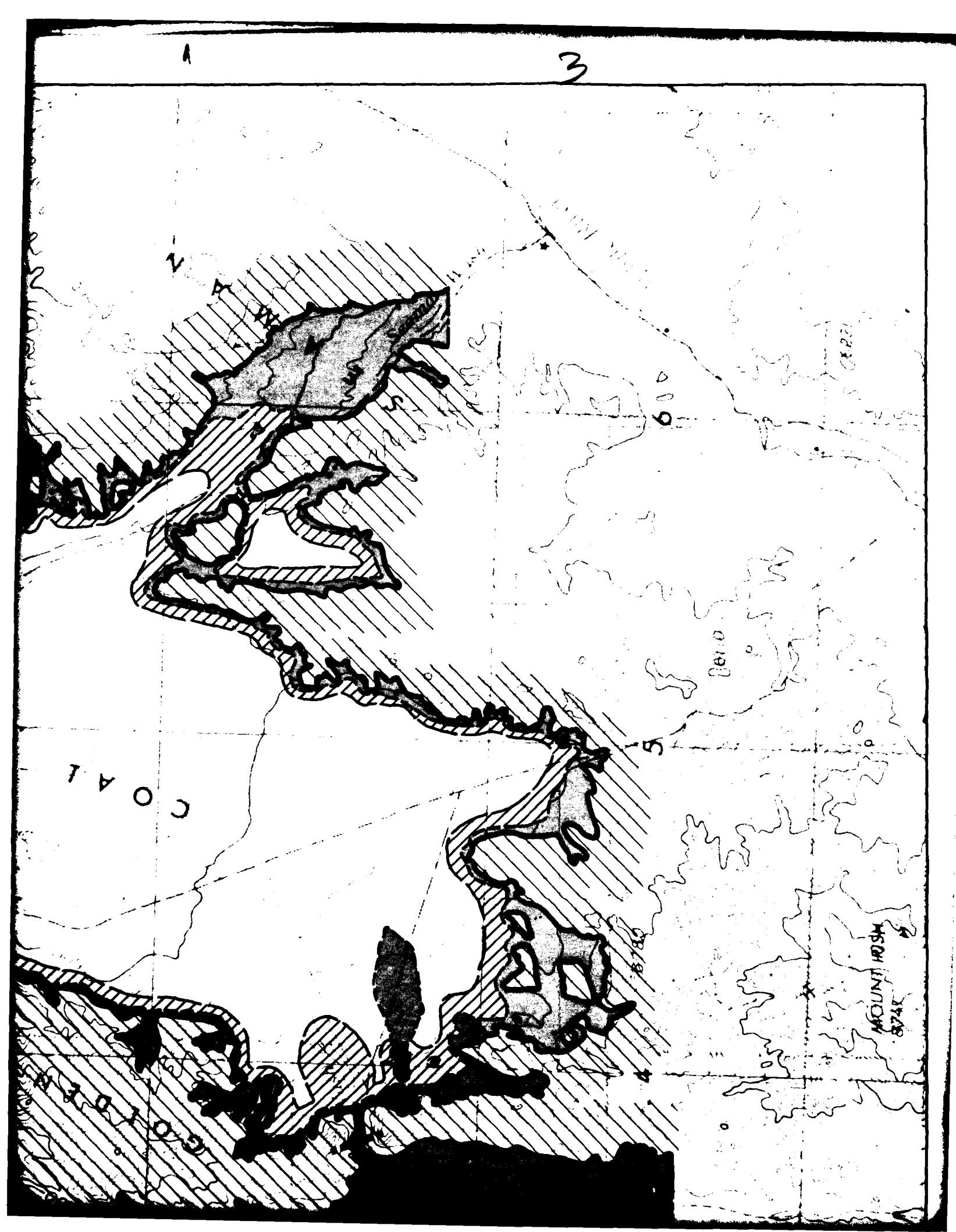
▨ Contact between rock and basin fill.

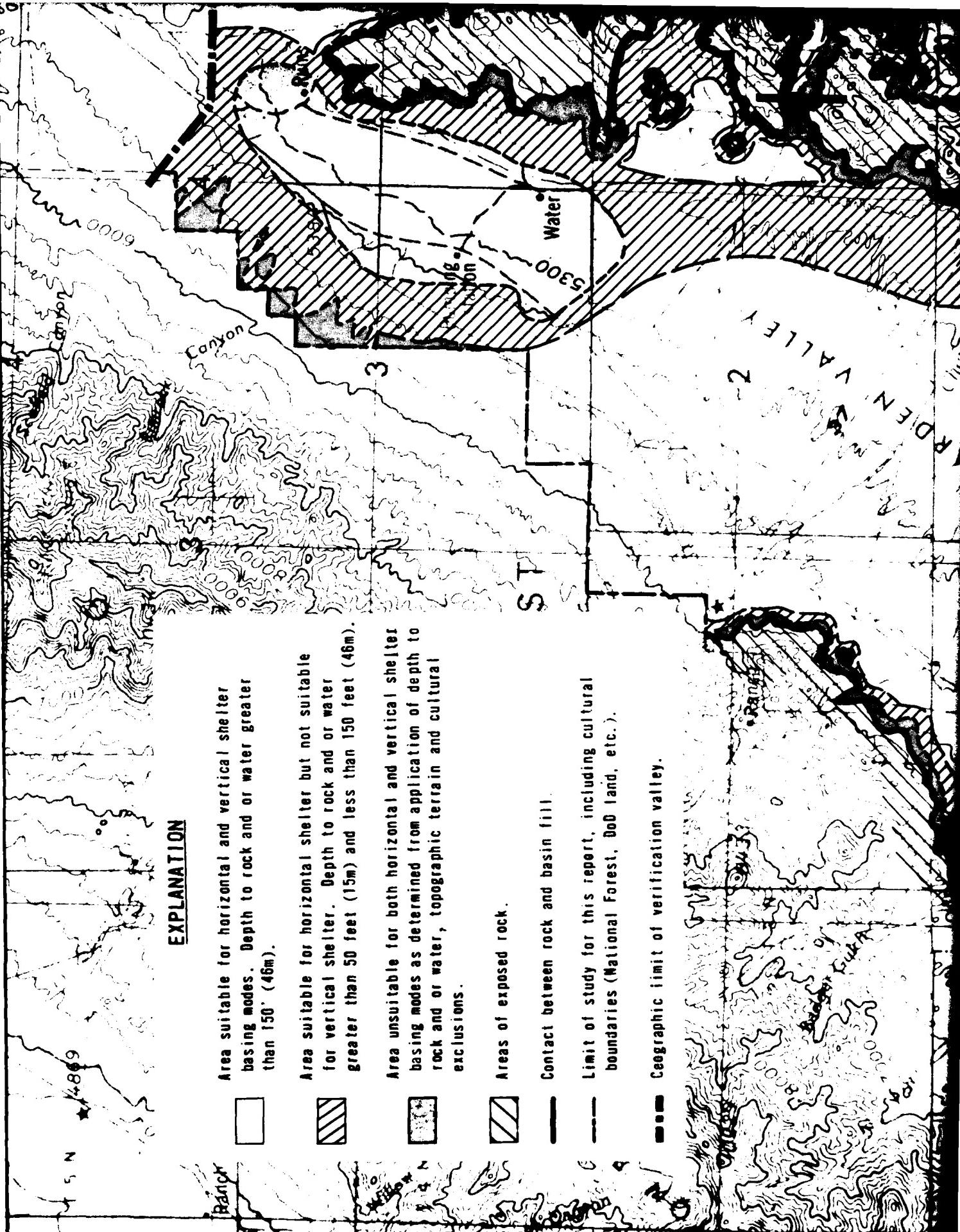
■ ■ ■ Geographic limit of verification valley.

SUITABLE AREA DRY LAKE VALLEY, NEVADA	
MX SITING INVESTIGATION DEPARTMENT OF THE AIR FORCE - DMO	SHARING 3-11
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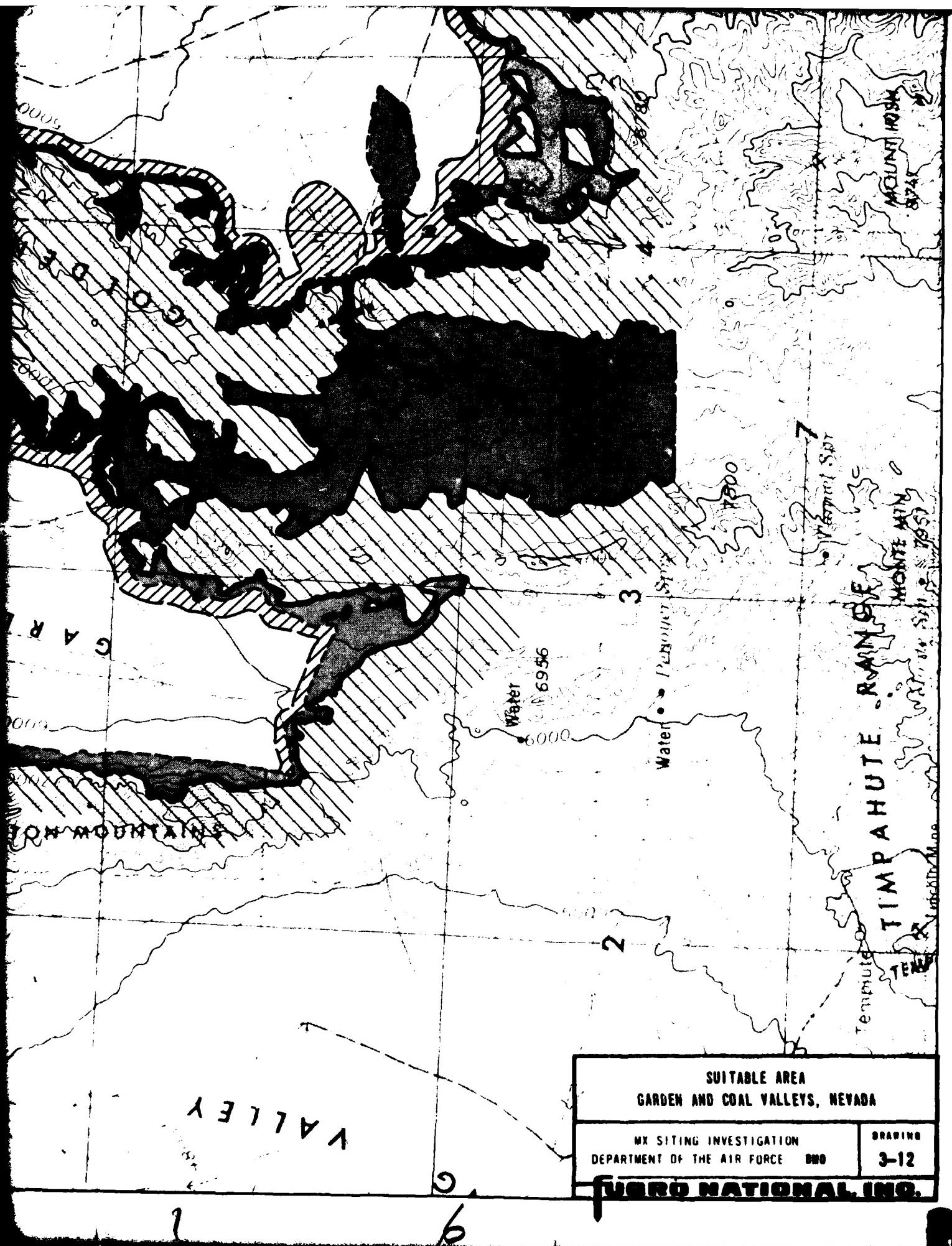




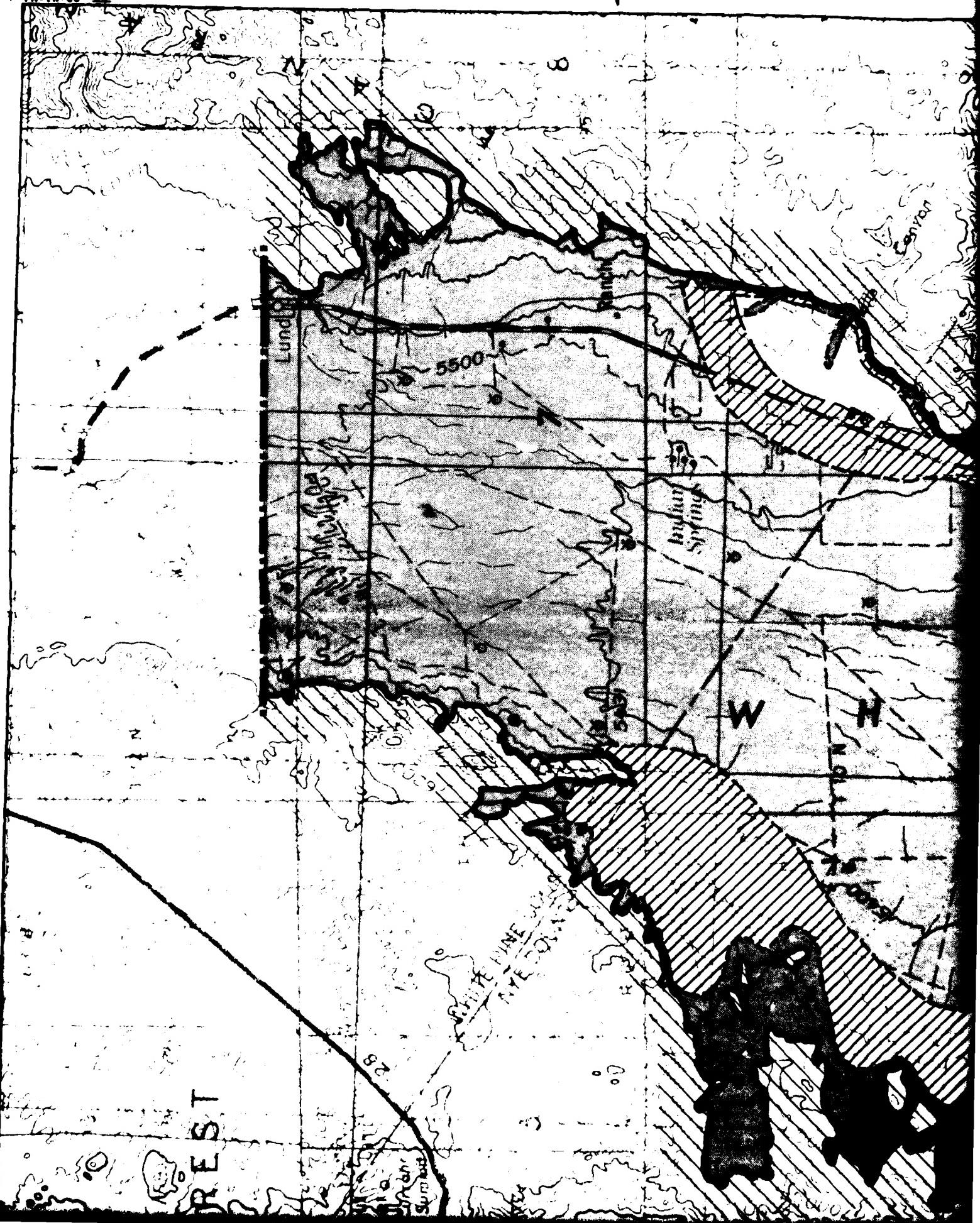








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EXPLANATION

Initable for horizontal and vertical shelter modes. Depth to rock and or water greater than 150 feet (46m).

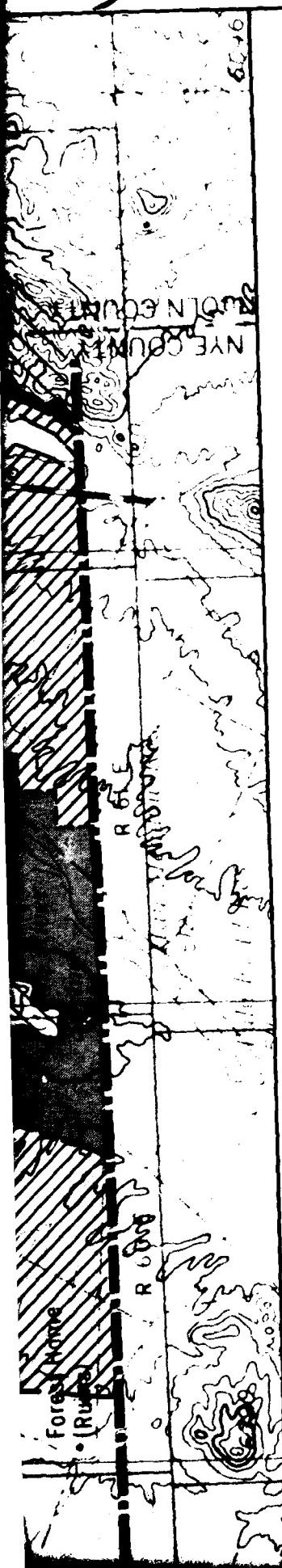
Initable for horizontal shelter but not suitable vertical shelter. Depth to rock and or water greater than 50 feet (15m) and less than 150 feet (46m).

SCALE 1:125,000

3

1

4



EXPLANATION

In suitable for horizontal and vertical shelter
nodes. Depth to rock and or water greater
than 150 feet (46m).

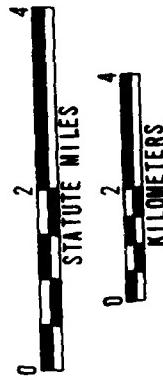
In suitable for horizontal shelter but not suitable
vertical shelter. Depth to rock and or water
less than 50 feet (15m) and less than 150 feet (46m).
In suitable for both horizontal and vertical shelter
nodes as determined from application of depth to
and or water, topographic terrain and cultural
features.

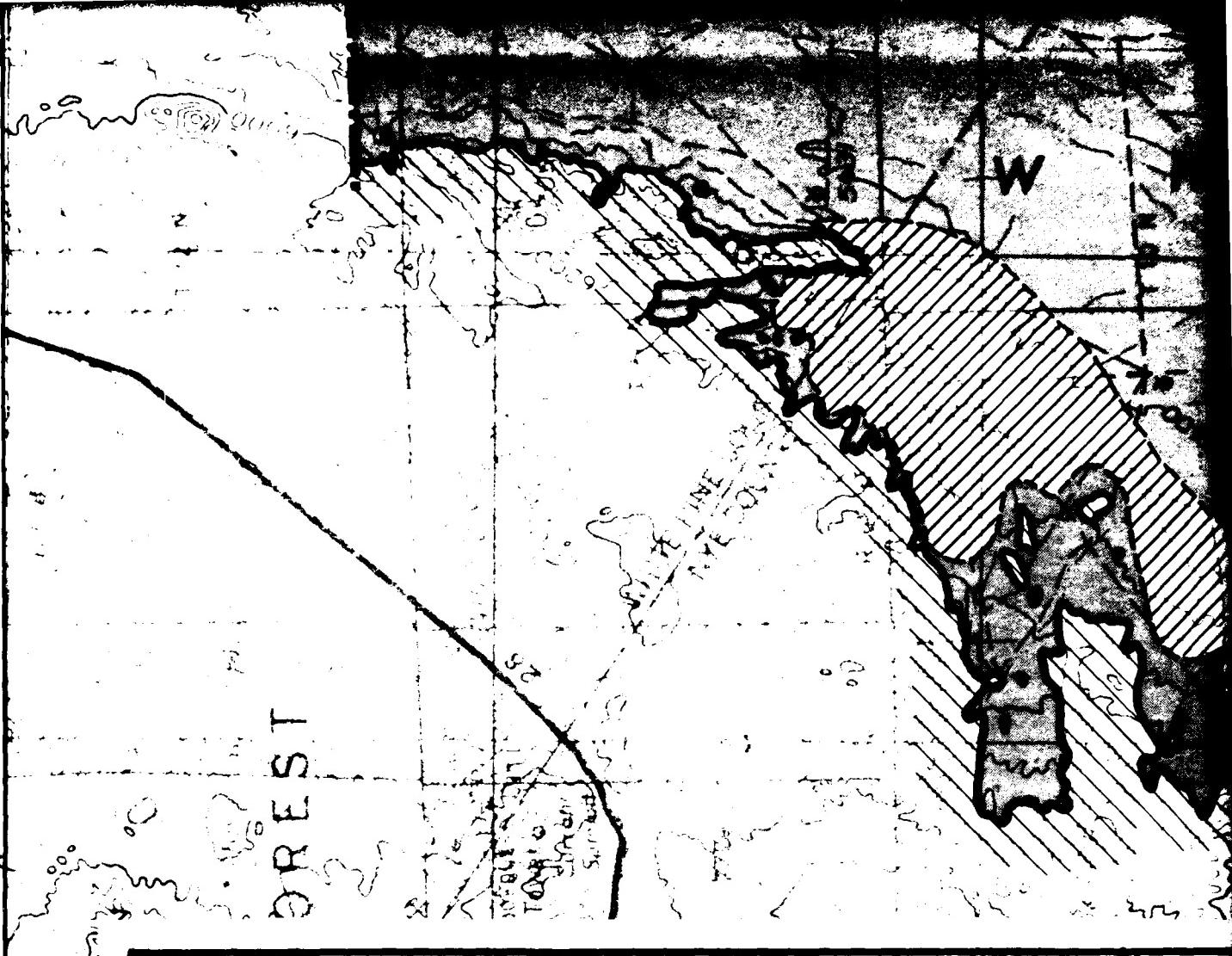
of exposed rock.

at between rock and basin fill.

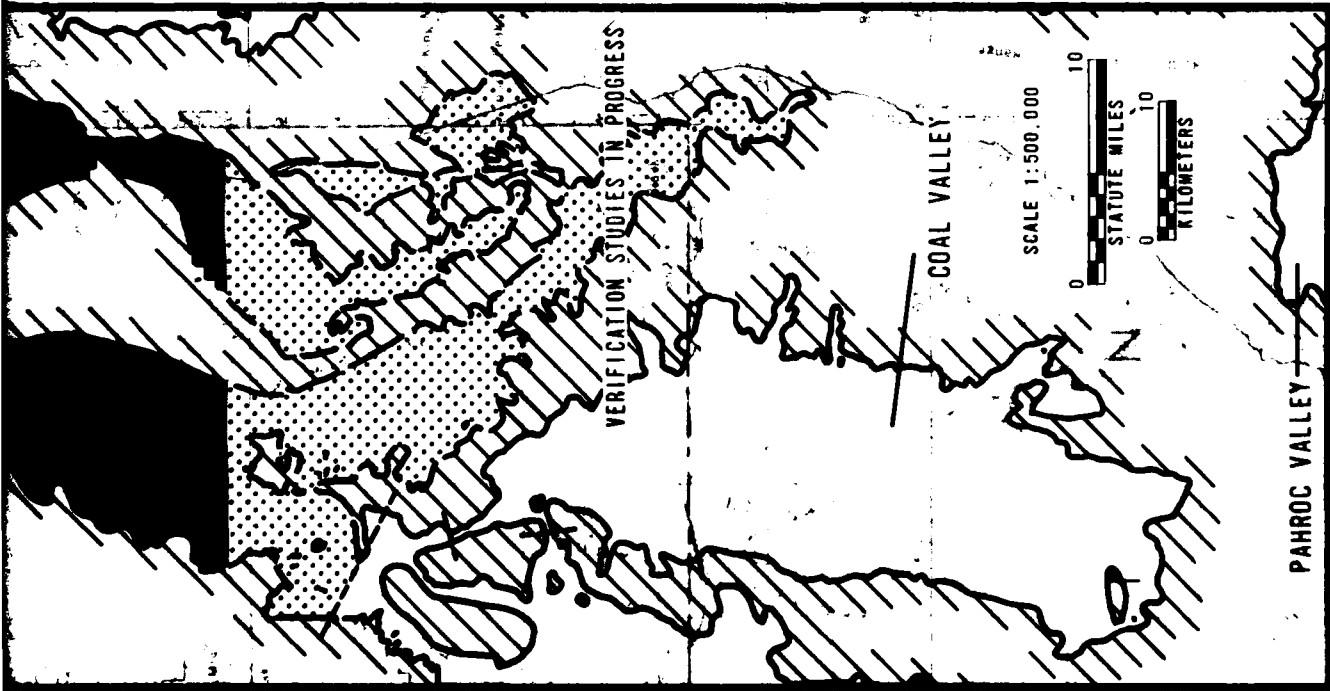
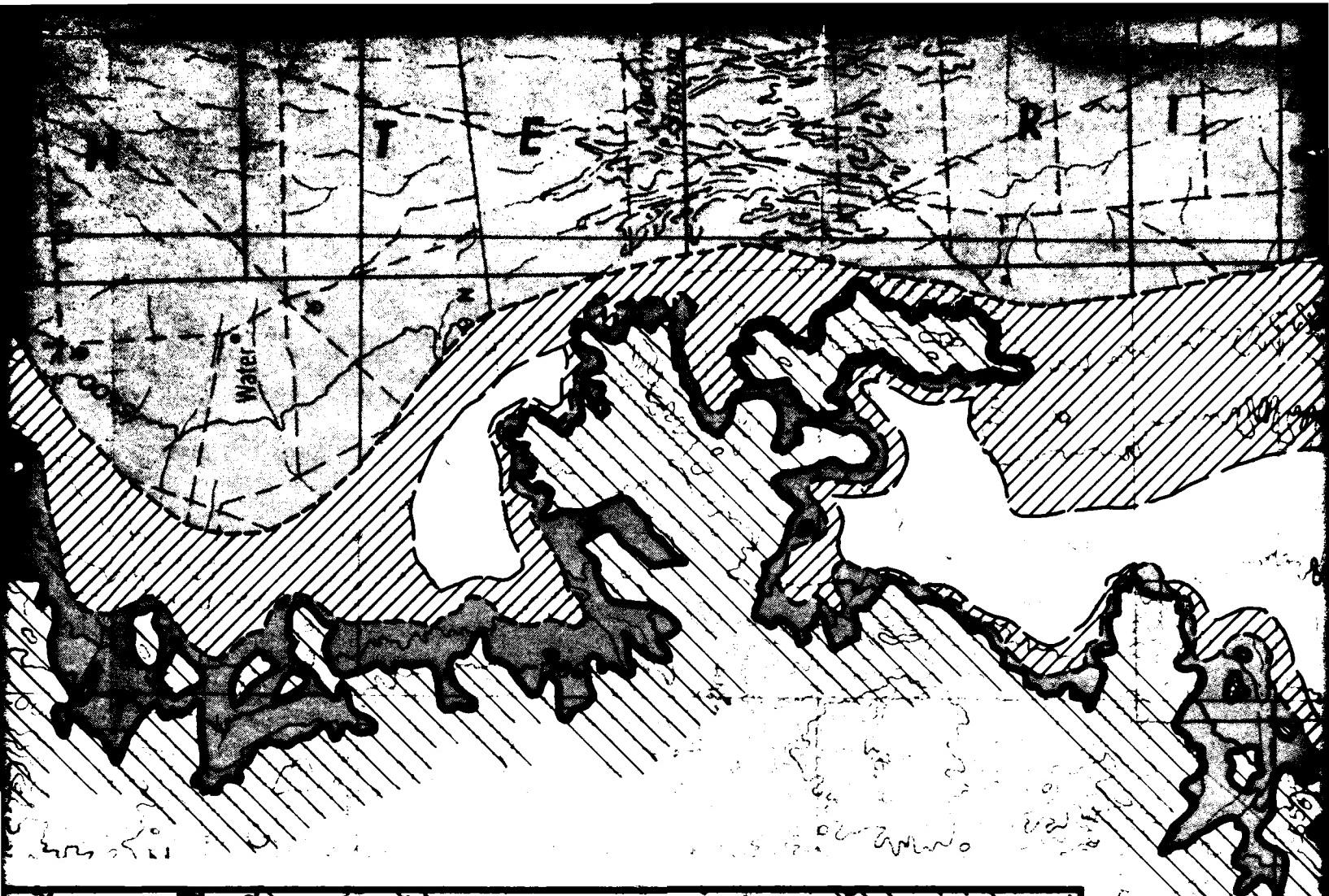
graphic limit of verification valley.

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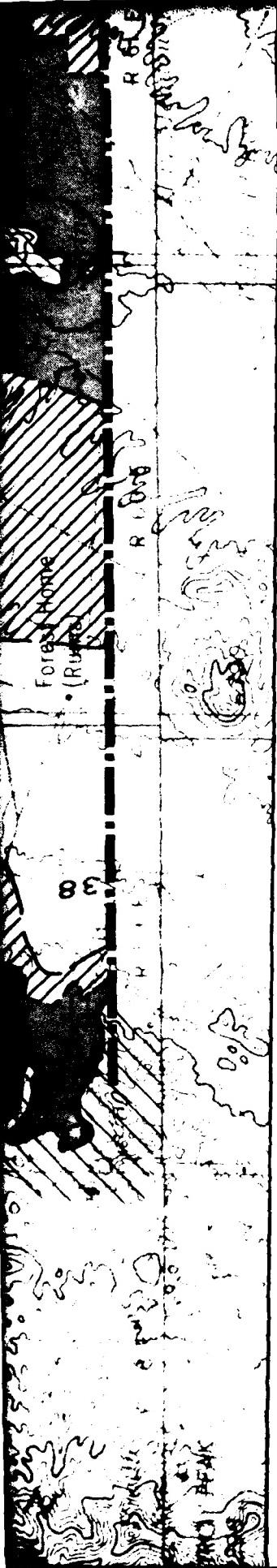
5



Area suitable for horizontal and vertical shelter
basin areas. Depth to rock

EXPLANATION





EXPLANATION

- Area suitable for horizontal and vertical shelter basing modes. Depth to rock and or water greater than 150 feet (46m).
- Area suitable for horizontal shelter but not suitable for vertical shelter. Depth to rock and or water greater than 50 feet (15m) and less than 150 feet (46m).
- Area unsuitable for both horizontal and vertical shelter basing modes as determined from application of depth to rock and/or water, topographic terrain and cultural exclusions.
- Areas of exposed rock.
- Contact between rock and basin fill.
- Geographic limit of verification valley.

SUITABLE AREA
WHITE RIVER VALLEY, NEVADA

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